



SUN Watts

Solar Power 101

December 09, 2009

Presented by: Eddie Williams





Funds are Exhausted!

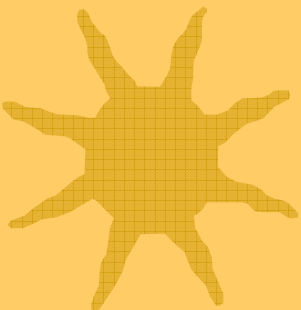
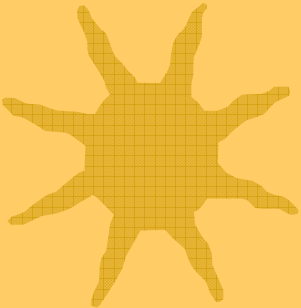
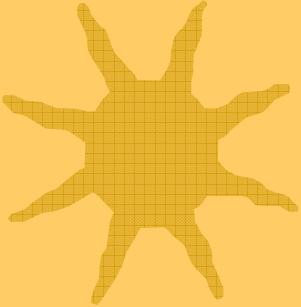
★ Renewable Energy Rebate Funds

- Temporarily Exhausted!
- Approved projects are now put in a Queue!





Summary



- ★ Who is Trico?
- ★ What is SunWatts?
- ★ Arizona Renewable Requirements
- ★ SunWatts Programs
- ★ How do I get my Rebate?
- ★ Contact Information





Who is Trico?

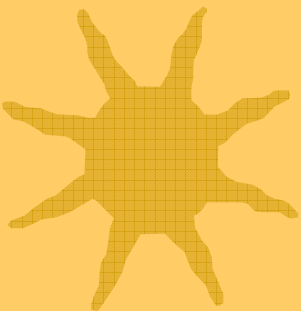
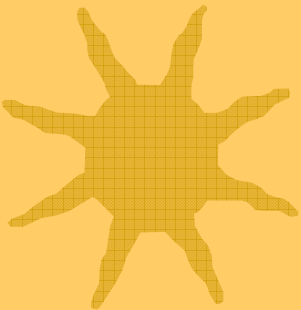
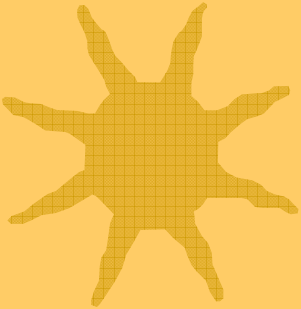
- ★ A not for profit Electric Distribution Cooperative incorporated in 1945.
- ★ Serves 35,000 members.
- ★ 3,526 Miles of Line.
- ★ Serves Parts of northwest Tucson, Marana, Vail, Corona de Tucson, Sahuarita, Green Valley, Mt. Lemmon, Avra Valley, Three Points and Arivaca





What is SunWatts?

A renewable energy program designed to help members of Arizona's Touchstone Energy® Cooperatives take part in renewable electric generation technologies throughout Arizona.





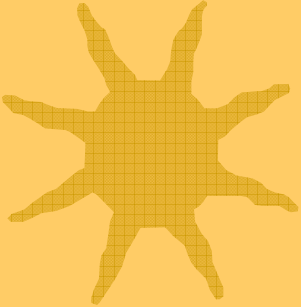
Renewable Energy Requirements

- ★ Arizona Corporation Commission (ACC) put mandates in place directing utilities to develop renewables resources and incorporate them into Arizona's generation mix.
- ★ SunWatts was created in August 2004 to help meet these mandates.
- ★ 2009 requirement is 2%.
- ★ By 2025 15% of AZ power will be generated from renewable energy sources.



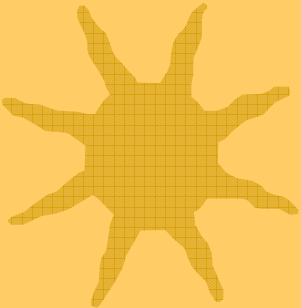


SunWatts Three Major Programs

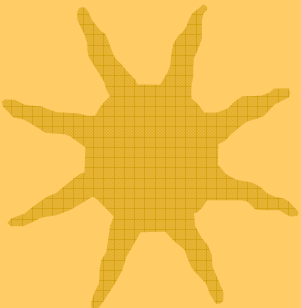


The SunWatts Green Energy Purchase Program

The SunWatts Rebate Program



The SunWatts Large-Scale Generation Program





The SunWatts Green Energy Purchase Program

- ★ Allows Cooperative Members interested in becoming greener and reducing their home's carbon footprint the option to purchase blocks of renewable energy.
- ★ Renewable Energy is sold in blocks of 50kWh for \$2.00 each and appears as a line item on their electric bill.





The SunWatts Rebate Program

- ★ Rebates are paid to homeowners for adding qualifying renewable energy technologies to their homes.
- ★ Qualifying Technologies include:
 - Photovoltaic (PV)
 - Small Wind
 - Solar Water Heating





Photovoltaic (PV) Generation & Small Wind Rebates

- ★ Rebates are paid on the manufacturers' nameplate rating.
- ★ \$4 per installed watt is the largest rebate available in the state.
- ★ A homeowner that installs a 2kW (2000 watts) PV or Small Wind system would be rebated **\$8,000** up to 50% of the system cost.





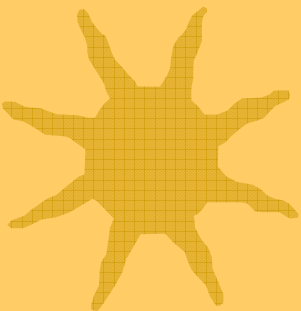
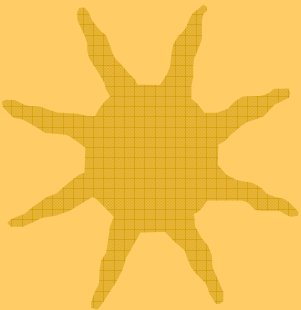
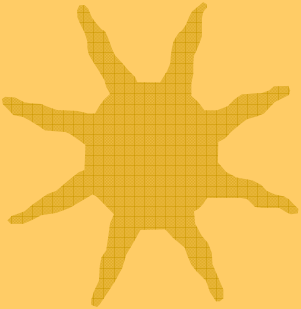
Solar Water Heating

- ★ Solar Water Heaters are rebated at \$.75 per saved kWh during the units first year of operation.
- ★ A SWH on average saves about 3000 kWh a year when compared to conventional water heating.
- ★ $3000 \text{ kWh} * \$0.75$ is **\$2,250**
- ★ Water Heating systems have to be **OG-300** rated to qualify.
- ★ Solar Water Heating rebates are calculated from a chart at www.solar-ratings.org. To reach the chart first click on "**Ratings**" then on "**Annual Performance**" and then on the city closest to you.





How do I get my Rebate?



- ★ **Step 1:** Interested Trico member should download the SunWatts handbook off of Trico's website and review. www.trico.coop
- ★ **Step 2:** Fill out appropriate enrollment form located in the SunWatts handbook.
- ★ **Step 3:** After Trico received the enrollment form they will send out a SunWatts Contractor's Packet.
- ★ **Step 4:** The member and contractor should fill out all forms in the packet.





Rebate Process Cont.

- ★ **Step 5:** Return all contractor packet forms along with copies of all city and county permits and a system plan for the system being installed.
- ★ **Step 6:** Once the system has been approved proceed with installation.
- ★ **Step 7:** Once installed Trico will send out a representative to verify system size, and interconnection.
- ★ **Step 8:** Once approved you will be put on a rebate waiting list.





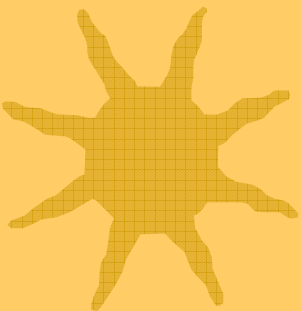
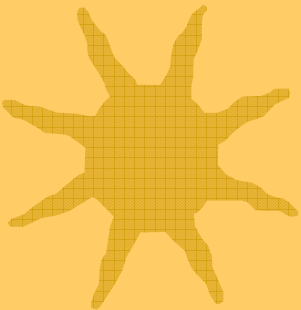
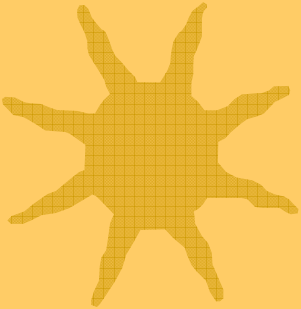
SunWatts Large Scale

- ★ Targeted to large-scale projects
- ★ Can include solar, wind, biomass, landfill gas, as well as, other ACC approved technologies.
- ★ By seeking out partnerships the coops can better achieve the economies of scale to bring down the costs of renewable energy for its members.





Owning a renewable system has never been cheaper!



- ★ Utility Rebates up to 50% of system costs
- ★ 30% Federal Tax Credit
- ★ \$1,000 Arizona Tax Credit
- ★ 60% or more of system costs can be provided through incentives.





Think Energy Efficiency First!

- ★ Before installing Renewable systems make sure your home is as energy efficient as possible.
- ★ For ideas on how to save energy. Visit www.touchstoneenergy.com to find a complete "Home Energy Savings Guide".
- ★ Remember "The cheapest kilowatt hour is the one that doesn't have to be generated."





For More Information

- ★ Visit Trico's website at www.trico.coop
 - SunWatts' literature is available for download on Trico's website.
- ★ Visit Trico's office at 8600 W. Tangerine Rd.
- ★ Call or Email:

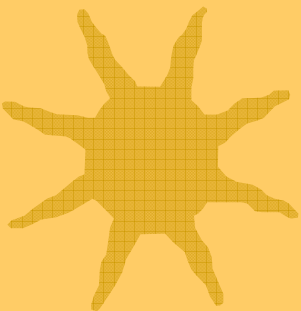
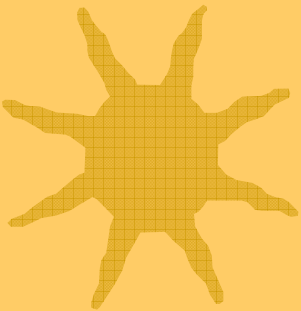
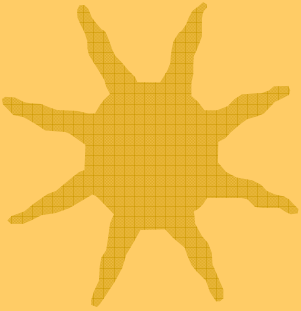
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Questions?

